APPENDIX E

Product Labels & Material Safety Data Sheets

Flowable Concentrate

Foray 48B

KEEP OUT OF REACH OF CHILDREN

CAUTION

USI No. 80179

For MEDICAL and TRANSPORT Emergencies ONLY Call 24 Hours A Day 1-877-J15-9819. For All Other Information Call 1-800-323-9597.

ACTIVE INGREDIENT:	
Raciliai sharungunusi subsp. kursaki, Lepidoetsa Acuve Toxia. NERT INGREDIENTS TOTAL	07 BG

POTENCY: 10,600 International Units (TUVing of prostoct (equivalent to 48 billion IU/GAL). Potency wasts should not be used to adjust use rates.

STATEMENTS OF PRACTICAL TREATMENT

If on Sitter Wash with pleasy of soop and water. Get medical attention

If in Eyes: Hosh with pleasy of water, Call a physician if eye emiates permate.

PRECAUTIONARY STATEMENTS

Proof A B C D E F

Yalani Başşıyısını

Property by PCO Property

50178-04

04-3238

ąч

ULA S LANG CONTRO

DANGAET EX

CATE
THE VALUE UNLESS PRODUCT
AND ONE COURT APPROPRIE
THE COURT APPROPRIES
THE COURT APPROPRI

COLOR SEPARATIONS

≯NS 8 kez

Т:посе

29/13/2000

HAZARO TO HUMANS (AND DOMESTIC ANIMALS) CAUTION

Causes moderate eye irreation. Avoid contact with sitts, eyes, open wounds or clothing. Wash thoroughly with soap and water after bandling

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-stocyced about seed long grants
- · Waterproof gloves
- Short pine socks

Follow the manufacturer's instructions for deading/maintaining PPE, if no such instructions for washables, use detergent and hot water. Keep and wash PPE reparably from other laundry

USER SAFETY RECOMMENDATIONS

Users should: Wash hands before cating, drinking, chewing gum, using moseco or base the tesies.

Edylroumeetsi Kazarda

Do not contamenate water when disposing of equipment washwaters

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your state or Tribe, consult the agency responsible for pessende regulation.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by morage or disposal of waste.

Storage: Store in a cool, dry place. Keep containers ugaily closed when not in use. Store in temperatures above recently and below 32° C (90° F).

Pesticide Disposal: Pesticide waste remitting from the use of this product may be disposed of on size or at an approved waste disposal (active) in accordance with tederal and local regulations.

Container Dispusal: Tupic times (or equivalent) Then ofter for recycling or reconditioning, or practice and dispose of in a sameny landfill, or by semicration or, if allowed by state and local authorities, by burning. If burned, sign out of smoke.

DIRECTIONS FOR MON-AGRICULTURAL APPLICATIONS

Not for one on plants being grown for suic or other commercial use, or for commercial used production, or for research purposes. For use on plants intended for sestimus perposes of clumatic modification and being grown is interior planetupes, ordannestal gardens or parks, or on golf courses or lawns and grounds.

Not for use on trees being grown for sale or other commercial eac, or for commercial send production, or for the production of amber or wood products, or for research purposes except wide-area public pex control programs spontored by government enotics, such as mosquito abatement, gypsy most control, and Methiorancan trust thy

MIXING

Foray 48B contains the spores and endotoxia crystals of Bucilius thereigness thurstaki. Foray 48B is a atomach polace and is effective agranat lepidoplerous larvae. After ingestion, larver stop tending within hours and the 2-5 days later. Maximum scovery is exhibited against carry mater larvec. Foray 48B insy be used for both ground and acres!

application. The product should be shaken or storred before use. Add some water to the tank mix, pour the recommended amount of Forsy 4KB into the tank and then add the femining amount of water to obtain the proper may rate. Aguste as accessary to maintain the suspension. The diluted max should be used within 72 hours.

APPLICATION

Ground Application: Use an adequate amount of tank min to obtain thorough coverage without excessive run off. Use the recommended per sere dosages of Foray ARB is the following arranged of water:

High volume by drautic sprayers (30) gallons Mut blowers 10 gaileos

Agrical Applications: Forsy 48B may be applied acrossly, either alone or diluted with water at the dosages shown in the application rates table. Sorsy volumes of 32-128 nunces per sere are recommended. Best results are expected when Foray 488 at applied

APPLICATION BATES

Cros	Pests	Rate: (pts/pcre)	Dásage! (BIL/Acre)
Forests, Shade Trees, Trees, Shrubs, Sugar Maple Trees, Ornamental Fruit, Nut and Citrus	Gypsy Moth & Asian Gypsy Moth, Elm Spanworm	1.3 - 6.7	8 - 40
	Spruce Budworm, Browntzu Moth, Daugtas Fir Tussock Moth, Coneworm	1.3 - 5	6 - 30
	Tussock Moths, Pine Butterfly, Bagworm, Leafrollers, Tortix, Mimosa Webworm, Tent Caterpalar, Jackpine Budworm, Blackheaded Budworm, Saddled Prominent, Saddleback Caterpalar, Eastern and Western Hemiock, Looper, Orange-surped Oakworm, Satin Moth	t - 2.7	5 - 15
	Redhumped Caternillars, Spring and Fall Cankerworm, Galdornia Cakworm, Fall Webworm	C.7 + 1.3	4 - d

Use the higher recommended rates on advanced larval stages or under high density

In treating Gypsy Moth and Asian Gypsy Moth infested trees and striubs in arbair, rural and semi-rural areas, exposure of non-target vegetation including, but not united to. hative and ornamental species and food or feed crops is definitied.

NOTICE OF WARRANTY

Selice makes no warranty of merchantability, fitness for any purpose, or otherwise, currents or implied, concerning this product or its such which mixed beyond the use of the product nader normal conditions to accord with the statement made on this rate: In no case shall the action be liable for consequential, special, or indirect damages regulary from the use or handling of this product. All such tisks shall be assumed by the buyer

EPA Rog No. 73149-46 EPA Est. No. 33762-LA-4801

For product information, contact: 1-8(X)-323-9597



04-3238/R4

ISSUED 06/14/01

Biobit(R) XL; Biocot(R) XL; Foray(R) 48B

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL NAME: Biobit(R) XL

Biocot(R) XL

Foray(R) 48B - Not For Use in Canada

Collapse

Bactospeine XL

DiPel 48A

EPA Registration No. 73049-46

Drug Code: 62072 * 34296 * 12280 * 11046 List Number: 60175 * 60178 * 60179 * 60180

MANUFACTURER: Valent BioSciences Corporation

870 Technology Way, Suite 100 Libertyville, Illinois 60048

EMERGENCY TELEPHONE NUMBERS Emergency Health or Spill:

> Outside the United States: 651-632-6184 Within the United States: 877-315-9819

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME: Bacillus thuringiensis, var. kurstaki

CAS/RTECS NUMBERS: 68038-71-1, N/A

OSHA-PEL 8HR TWA: N/L

STEL: N/L

CEILING: N/L

ACGIH-TLV 8HR TWA: N/L

STEL: N/L

CEILING: N/L

OTHER 8HR TWA: N/A LIMITS STEL: N/A

CEILING: N/A

ISSUED 06/14/01

2. COMPOSITION/INFORMATION ON INGREDIENTS, continued

INGREDIENT NAME: Inert ingredients - identity withheld as a Trade

Secret

CAS/RTECS NUMBERS: N/A, N/A

OSHA-PEL 8HR TWA: N/L

STEL: N/L

CEILING: N/L

ACGIH-TLV 8HR TWA: N/L

STEL: N/L

CEILING: N/L

8HR TWA: N/A

OTHER LIMITS STEL: N/A

CEILING: N/A

EEC (European Community): N/D

Symbol Designation: N/A Risk Phrases: N/A

Safety Phrases: S2 Keep out of reach of children. S3 Keep in

a cool place. S13 Keep away from food, drink

and animal feeding stuffs.

3. HAZARDS INFORMATION

EMERGENCY OVERVIEW: This material may cause transient skin and eye irritation.

ROUTE(S) OF ENTRY: Skin: No

> Inhalation: No Ingestion: No

INGESTION RATING: None

SKIN ABSORPTION RATING: None

INHALATION RATING: N/D

CORROSIVENESS RATING: None

SKIN CONTACT RATING: None

ISSUED 06/14/01

3. HAZARDS INFORMATION, continued

SKIN SENSITIZATION RATING: N/D

EYE CONTACT RATING: None

TARGET ORGANS: Possibly skin, eyes and respiratory tract

CARCINOGENICITY RATING: NTP: N/L IARC: N/L OSHA: N/L

ACGIH: N/L

None

SIGNS AND SYMPTOMS: N/D. May cause skin, eye, and respiratory irritation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: N/D

4. FIRST AID MEASURES

- EYES: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
- SKIN: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
- INGESTION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
- INHALATION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

ISSUED 06/14/01

5. FIRE FIGHTING PROCEDURES

FLASH POINT: N/D FLASH POINT METHOD: N/D

LOWER EXPLOSIVE LIMIT(%): N/D

UPPER EXPLOSIVE LIMIT(%): N/D

AUTOIGNITION TEMPERATURE: N/D

FIRE & EXPLOSION HAZARDS: N/D

EXTINGUISHING MEDIA: Use appropriate medium for the underlying cause of the fire.

FIRE FIGHTING INSTRUCTIONS: Wear protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR RELEASE PROCEDURES: Recover product and place in an appropriate container for disposal. Ventilate and wash the spill area.

7. HANDLING AND STORAGE

HANDLING: Avoid dust generation and provide room ventilation during handling.

STORAGE: Store in a cool, dry place. Keep containers tightly closed when not in use. Store in temperatures above freezing and below 32 C (90 F).

SPECIAL PRECAUTIONS: Wash thoroughly with soap and water after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use local exhaust

RESPIRATORY PROTECTION: Air purifying respirator with dust/mist filter

ISSUED 06/14/01

8. EXPOSURE CONTROLS/PERSONAL PROTECTION, continued

(N95), if necessary.

SKIN PROTECTION: Impervious.

EYE PROTECTION: Goggles.

OTHER PROTECTION: Wear tyvek coveralls if contact may occur.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Light brown suspension

ODOR: Pungent, bacterial

BOILING POINT: N/D

MELTING/FREEZING POINT: N/D

VAPOR PRESSURE (mm Hg): N/D

VAPOR DENSITY (Air=1): N/D

EVAPORATION RATE: N/D

BULK DENSITY: 1.12-1.2 g/cm3

SPECIFIC GRAVITY: N/D

SOLUBILITY: Readily mixable with water

pH: 4.1-4.8 as a 10% solution in water

VISCOSITY: N/D

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Not chemically reactive.

INCOMPATIBILITIES: Alkalinity inactivates product.

HAZARDOUS DECOMPOSITION PRODUCTS: Not known to occur.

HAZARDOUS POLYMERIZATION: Not known to occur.

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY: N/D. LD50 > 5000 mg/kg in rats for a similar formulation. EPA Category IV.

ISSUED 06/14/01

TO TOUT OUT ON THE ON THE STANDA

11. TOXICOLOGICAL INFORMATION, continued

DERMAL TOXICITY: N/D. LD50 > 2500 mg/kg in rabbits for a similar formulation. EPA Category III.

INHALATION TOXICITY: N/D. A similar formulation was not lethal in an inhalation study at the maximum achievable concentration of 6.81 mg/L. EPA Category IV.

CORROSIVENESS: N/D. A similar formulation was not corrosive.

DERMAL IRRITATION: N/D. A similar formulation had slight skin reactions up to 24 hrs after treatment. EPA Category IV.

OCULAR IRRITATION: N/D. A similar formulation was mildly irritating, which was reversible within 7 days. EPA Category III.

DERMAL SENSITIZATION: N/D

SPECIAL TARGET ORGAN EFFECTS: N/D

CARCINOGENICITY INFORMATION: N/D

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Studies on non-targets have been performed without identifying any organisms at risk. The following species have been included in the testing. Mammals (rats, rabbits), Freshwater aquatic invertebrate (Daphnia Magna, Rainbow Trout), Birds (Mallard Duck, Bobwhite), Non-target insects (Green Lacewing Larvae, Hymenopteran Pedibus Foveolatus, Ladybird Beetles, Honey Bee).

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Dispose of product in accordance with federal, state and local regulations.

PAGE 7

ISSUED 06/14/01

14. TRANSPORTATION INFORMATION

DOT STATUS: Not Regulated

PROPER SHIPPING NAME: N/D

HAZARD CLASS: N/D

UN NUMBER: N/D

PACKING GROUP: N/D

REPORTABLE QUANTITY: N/D

IATA/ICA0 STATUS: Not Regulated

PROPER SHIPPING NAME: N/D

HAZARD CLASS: N/D

UN NUMBER: N/D

PACKING GROUP: N/D

REPORTABLE QUANTITY: N/D

IMO STATUS: Not Regulated

PROPER SHIPPING NAME: N/D

HAZARD CLASS: N/D

UN NUMBER: N/D

PACKING GROUP: N/D

REPORTABLE QUANTITY: N/D

FLASH POINT: N/D

15. REGULATORY INFORMATION

TSCA STATUS: Exempt

CERCLA STATUS: N/D

SARA STATUS: N/D

RCRA STATUS: N/D

PROP 65 (CA): N/D

ISSUED 06/14/01

16. OTHER INFORMATION

LEGEND: N/A = Not Applicable

N/D = Not Determined

N/L = Not Listed

L = Listed

C = Ceiling

S = Short-term

(R) = Registered Trademark of Valent BioSciences

(TM) = Registered Trademark of Valent BioSciences

The information and recommendations contained herein are based upon tests believed to be reliable. However, Valent BioSciences does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform with actual conditions of usage may be required. Valent BioSciences assumes no responsibility for results obtained or for incidental or consequential damages arising from the use of these data. No freedom from infringement of any patent, copyright or trademark is to be inferred.

FOR GENERAL USE IN SPRAY MIXTURES OF INSECTICIDES, FUNGICIDES, REPELLENTS AND WEED KILLER SPRAYS. DIRECTIONS

ture. Rates as high as 1 pint per 100 gallons may terials have been added, when the tank is about Use 2 to 4 ounces per 100 gallons of spray mixprove advantageous when used with nonselective weed killers. Add PLYAC to the spray tank with good agitation, after all other spray maIn Concentrate Sprays—Use 2 to 4 fluid ounces per acre on field crops such as cotton, forage, grain, and row crops.

With Cotton Defoliants—Use 1/2 to 1 pint per acre, depending on size of plants. Cattle Spray and Dip Treatment-Use 4 to 8 ounces of PLYAC per 100 gallons of spray or dip mixture. PLYAC should be added to the spray or dip tank after all other insecticides have been added and the tank is 3/4 full

FOR USE IN BULB DIP

Tulips-To improve appearance of tulip bulbs by holding on the skins, use 1 part PLYAC in 5 parts of water. After bulbs have been dug, dried for about 2 days and graded-then dip for several seconds into stock tank containing PLYAC solution, take out and drain. Then place bulbs back on drying trays and return to drying rooms. Gladiolus -- For treatment of corms that are to be stored soak for 15 to 30 minutes in a solution containing 5 pounds Captan 75 W, 2 pints Parathion EM-2 emulsifiable concentrate and 3 grading. The PLYAC will form a film which will hold the chemical dip on the corms. NOTE: For quarts PLYAC immediately after cleaning and use of Captan and Parathion, follow the direc-

(1000) Hat NON-IONIC SPREADER-STICKER

(new 4/5/95) 21-95

To protect fruit trees, shrubs, ornamentals and nursery stock from rabbits and deer, mix 1 quart of PLYAC with 1 quart of Thiram 42-S in 2 quarts of water. Spray twigs and foliage to be protected with a heavy coating. If heavier deposits are de-

AND DEER REPELLENT

FOR USE WITH KABBIT

Make treatments before animal damage is expected. NOTE: For these and additional uses of Thiram 42-S as a repellent follow the directions and precautions as directed on that label. Do not use on plant parts that are to be used for food or

sired reduce the amount of water in the mixture.

FUNGICIDE, REPELLENT AND WEED KILLER SPRAYS FOR INCREASED EFFECTIVENESS OF INSECTICIDE,



PRINCIPAL FUNCTIONING AGENTS:

... 72.50%

27.50%

KEEP OUT OF REACH OF CHILDREN

 $12 \times 2^{1/2}$ GALLONS NET CONTENTS ■ 4 × 1 GALLON

STORAGE

This product cannot be readily poured if stored below 30°F, however, freezing has no adverse effects on the quality of the product

NOTICE OF WARRANTY

Follow directions carefully. Timing and method of mended, and other influencing factors in the use application, weather and crop conditions, mixtures with other chemicals not specifically recom-Buyer assumes all risks of use, storage or handling of this material not in strict accordance with of this product are beyond the control of the seller. directions given herewith.



MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION OF PRODUCT

LOVELAND INDUSTRIES, INC. P.O. BOX 1289 GREELEY, COLORADO 80632

EMERGENCY PHONE NUMBERS 1-800-424-9300 CHEMTREC 1-970-356-4400 CALL CHEMTREC 24 HOURS A DAY @ 1-800-424-9300

TRADE NAME:

PLYAC

CHEMICAL NAME:

Oxidized Polyethylene and Ethyoxylated Phenoxy Alcohol

CHEMICAL FAMILY: Sticker

II. HAZARDOUS COMPONENTS OF MIXTURES

COMPONENT

CAS#

TLV(UNITS)

NONE

III. PHYSICAL DATA

BOILING POINT:

Not Est.

VAPOR DENSITY(AIR=1):

Not Avail.

BULK DENSITY:

8.32#/Gallon

% VOLATILE BY VOL:

Not Avail.

SPECIFIC GRAVITY:

0.998

APPEARANCE:

Milky-white to Light Yellow Liquid

SOLUBLE IN WATER:

Emulsifies

ODOR:

Paraffin-Like

VAPOR PRESSURE (mm OF Hg) @ 20 D C:

Not Est.

IV. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (TEST METHOD):

190°F (TCC)

FLAMMABLE LIMITS (UEL AND LEL):

Not Avail.

EXTINGUISHING MEDIA:

Water fog, Dry Chemical, CO.,

SPECIAL FIRE FIGHTING PROCEDURES:

Use water in fine spray to cool fire exposed unbroken containers to prevent bursting from excessive pressure. Self-contained breathing apparatus should be worn for smoke and carbon monoxide. Wear impervious clothing and dike area to prevent

runoff if pesticides are also involved.

UNUSUAL FIRE AND EXPLOSION HAZARD:

Chemical fire fighting should be done from upwind. Watch your

footing; spills or leaks may cause waxy slipperiness.

V. REACTIVITY DATA

STABILITY:

Stable

CONDITIONS TO AVOID:

Not Known at Ambient Temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong oxidizers or reducers.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Dioxide, Carbon Monoxide, steam and smoke under fire

conditions.

HAZARDOUS POLYMERIZATION:

Will not occur

VI. HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Local irritation may be possible, especially in sensitive individuals. PLYAC is not an eye or primary skin irritant per the Federal Hazardous Substances Labeling Act. Aspiration of undiluted PLYAC may be irritating or promote chemical pneumonitis. Systemic toxic effects are unlikely. Spray mixtures with pesticides should be evaluated in accordance with pesticide toxicity.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush with water for 15 minutes, then get medical attention.

SKIN: Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation persists.

INGESTION: Call a physician immediately. Induce vomiting.

INHALATION: Remove victim to fresh air. Apply artificial respiration if necessary.

CARCINOGEN STATUS: Not listed by NTP, IARC or ACGIH

NOTE TO PHYSICIAN: Gastric lavage may be indicated for ingestion. Treat symptomatically.

CAUTION: First aid for spray mixtures containing pesticides should be evaluated in accordance with pesticide

toxicity.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Watch your footing; spills or leaks may cause waxy slipperiness. Keep away from ignition sources. Confine spill by diking and soak up with absorbent material and place in a container for proper disposal in accordance with all Federal, State and Local Regulations. Flush surfaces clean with water. Keep out of bodies of water and sewer.

WASTE DISPOSAL METHOD: Do not contaminate water, food or feed by storage or disposal. Dispose of in an approved waste disposal facility in accordance with all Federal, State and Local Regulations.

CONTAINER DISPOSAL: Offer metal drums for recycling. Plastic containers may be disposed of in a sanitary landfill or by other procedures approved by the appropriate authorities.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Wear a NIOSH/MSHA approved respirator if necessary.

VENTILATION:

LOCAL: Not Required

SPECIAL: None OTHER: None

PROTECTIVE GLOVES:

MECHANICAL: Not Required Wear rubber or impervious gloves.

EYE PROTECTION:

Wear goggles or a face shield.

OTHER PROTECTION:

Full body covering clothing.

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN STORAGE AND HANDLING: Use good hygiene practices. Observe precautions for handling liquid such as container orientation, protection from punctures. Slippery on floors, stairs, step plates and other surfaces. Clean up spills promptly as a good housekeeping practice. Store in a cool dry place. Keep in original container tightly closed. Do not reuse empty container.

OTHER PRECAUTIONS: Keep out of reach of children.

X. REGULATORY INFORMATION

Components which could require reporting under SARA TITLE III are: None.

CHEMICAL

%

CAS NUMBER

SARA TITLE III HAZARD CATEGORY

IMMEDIATE:

Yes

FIRE:

Yes

REACTIVITY:

No

DELAYED:

No

SUDDEN RELEASE OF PRESSURE:

No

Legal responsibility is assumed only for the fact that all studies reported here and all opinions are those of qualified experts. Buyer assumes all risks & liability. He accepts & uses this material on these conditions. He must have a copy of this MSDS where this material is handled.

Date of Issue: 6-23-99

Supersedes: New